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14. (Amended) An apparatus comprising a recordable medium having a first and a second dot within a halftone cell, wherein at least a portion of said first dot overlaps at least a portion of said second dot.

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20. (Amended) An apparatus comprising a recordable medium having a first and a second dot within a halftone cell, wherein said first and second dots are dissimilar.

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23. (Amended) The apparatus according to claim 22, wherein said different shape is selected from a group consisting of: elliptical, triangular, rectangular, circular, diamond and linear shapes.

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26. (Amended) An apparatus comprising a halftone screen having a halftone cell derived from a threshold equation, wherein a fold function of said threshold equation generates at least one dot within said halftone cell according to fold(x) = [[[[x]] - 1/3] -1/3] -1/3] * 3.

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28. (Amended) The program product of claim 27, wherein said signal bearing medium includes at least one of a recordable medium and a transmission-type medium.

31. (Amended) The program product of claim 30, wherein said signal bearing medium includes at least one of a recordable medium and a transmission-type medium.

Please add new claims 33-49 as follows:

- 33. A method for producing a halftone image using a program that executes on a processor, comprising creating a halftone screen including dots having different frequencies.
- 34. The method of claim 33, wherein creating said halftone screen further comprises integrating both fine and coarse pitch cells.
- 35. The method of claim 33, wherein creating said array further comprises overlapping at least a portion of a first out of a halftone cell of said halftone screen with at least a portion of a second dot of said halftone cell.
- The method of claim/33, wherein creating said array further comprises placing a first and a second dot within a halftone cell of said halftone screen, wherein said first and second halftone dots are dissimilar.
- 37. The method of claim 33, wherein producing said halftone screen further comprises producing an array including dots having different frequencies.

38. A printing system, comprising:

a processor, and

program code initiates printing an array including dots having different frequencies.

39. The apparatus of claim 38, wherein said array has a portion of integrated coarse and fine pitch cells.

- 40. The apparatus of claim 38, wherein said array has a halftone cell that includes at least a portion of a first dot of said halftone cell being overlapped with at least a portion of a second dot of said halftone cell.
- The apparatus of claim 38, wherein said array has a halftone cell that includes first and second dots, wherein said first and second dots are dissimilar.
- 42. The method of claim 1, wherein said overlapping further comprises creating an array that includes dots having different frequencies.
- 43. The method of claim 8, wherein said placing of said first and second dots further comprises creating an array that includes dots having different frequencies.

- The apparatus of claim 14, wherein said recordable medium further comprises dots having different frequencies
- 45. A printing system, including:
 - a scanning circuit for reading image data from a source;
- a processor in communication with said scanning circuit, wherein said processor receives and processes the image data to generate an image file;

an image setter in communication with said processor, wherein said image setter receives said image file from said processor and produces a plurality of dots on a recordable medium, said plurality of dots including a plurality of frequencies.

46. A printing system, including:

a scanning circuit for reading image data from a source;

a/processor in communication with said scanning circuit, wherein said processor receives and processes the image data to generate an image file;

an image setter in communication with said processor, wherein said image setter receives said image file from said processor and produces a plurality of dots on a recordable medium, said plurality of dots including a first and a second dot within a halftone cell, wherein at least a portion of said first dot overlaps at least a portion of said second dot.